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OM nucleic - nucleic search, using sw model

Run on: August 28, 2002, 07:08:00 ; Search time 51.7 Seconds  
(without alignments)  
7369.005 Million cell updates/sec

Title: US-08-711-417C-165

Perfect score: 1551

Sequence: 1 ATGGATGCTCAGCAGGGTCA.....ACCGGTTCCATGAGCTAA 1551

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 383533 seqs, 122816752 residues

Total number of hits satisfying chosen parameters: 767066

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued\_Patents\_NA:\*

- 1: /cgn2\_6/ptodata/2/ina/5A\_COMB.seq:\*
- 2: /cgn2\_6/ptodata/2/ina/5B\_COMB.seq:\*
- 3: /cgn2\_6/ptodata/2/ina/6A\_COMB.seq:\*
- 4: /cgn2\_6/ptodata/2/ina/6B\_COMB.seq:\*
- 5: /cgn2\_6/ptodata/2/ina/PCTUS\_COMB.seq:\*
- 6: /cgn2\_6/ptodata/2/ina/backfiles1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1551	100.0	1551	4	US-08-711-417C-165
2	1386	89.4	1386	1	US-08-465-590-3
3	1386	89.4	1386	4	US-08-283-300A-2
4	1386	89.4	1386	4	US-08-711-417C-3
5	1386	89.4	1386	5	PCT-US95-09345-2
6	1382.4	89.1	1611	5	PCT-US93-08743-3
7	1174.8	75.7	2049	1	US-08-465-590-5
8	1174.8	75.7	2049	4	US-08-283-300A-4
9	1174.8	75.7	2049	4	US-08-711-417C-5
10	1174.8	75.7	2049	4	PCT-US95-09345-4
11	868	56.0	1004	1	US-08-465-590-8
12	868	56.0	1004	4	US-08-283-300A-7
13	868	56.0	1004	4	US-08-711-417C-8
14	868	56.0	1004	5	PCT-US95-09345-7
15	813.2	52.4	1788	1	US-08-465-590-2
16	813.2	52.4	1788	4	US-08-283-300A-1
17	813.2	52.4	1788	4	US-08-711-417C-2
18	813.2	52.4	1788	5	PCT-US93-08743-2
19	813.2	52.4	1788	5	PCT-US95-09345-1
20	689.4	44.4	1296	1	US-08-465-590-4
21	689.4	44.4	1296	4	US-08-283-300A-3
22	689.4	44.4	1296	4	US-08-711-417C-4
23	689.4	44.4	1296	5	PCT-US95-09345-3
24	577	37.2	1170	1	US-08-465-590-6
25	577	37.2	1170	4	US-08-283-300A-5
26	577	37.2	1170	4	US-08-711-417C-6
27	577	37.2	1170	5	PCT-US95-09345-5

28 458.2 29.5 1128 1 US-08-465-590-7 Sequence 7, Appli  
29 458.2 29.5 1128 4 US-08-283-300A-6 Sequence 6, Appli  
30 458.2 29.5 1128 4 US-08-711-417C-7 Sequence 7, Appli  
31 458.2 29.5 1128 5 PCT-US95-09345-6 Sequence 6, Appli  
32 81 5.2 3777 3 US-09-121-321-15 Sequence 15, Appli  
33 81 5.2 3777 4 US-09-933-803A-15 Sequence 15, Appli  
34 74.4 4.8 3536 3 US-08-418-640-3 Sequence 3, Appli  
35 74.4 4.8 3720 1 US-08-074-967-1 Sequence 1, Appli  
36 74.4 4.8 3720 2 US-08-553-541B-1 Sequence 1, Appli  
37 74.4 4.8 3720 4 US-09-288-202-1 Sequence 1, Appli  
38 74.4 4.8 3720 5 PCT-US94-06669-1 Sequence 433, App  
39 73.4 4.7 563 4 US-09-385-982-433 Sequence 66, Appl  
40 71.6 4.6 1892 2 US-08-933-750C-66 Sequence 66, Appl  
41 71.6 4.6 1892 3 US-09-234-613-66 Sequence 66, Appl  
42 71.6 4.6 2680 4 US-09-063-035-1 Sequence 1, Appli  
43 70 4.5 1309 2 US-08-933-750C-63 Sequence 63, Appli  
44 70 4.5 1309 3 US-09-234-613-63 Sequence 63, Appli  
45 65.8 4.2 2031 2 US-08-933-750C-53 Sequence 53, Appli

## ALIGNMENTS

RESULT 1  
US-08-711-417C-165  
; Sequence 165, Application US/08711417C  
; Patent No. 6228611  
; GENERAL INFORMATION:  
; APPLICANT: Georgopoulos, Katia A.  
; TITLE OF INVENTION: IKAROS: A T CELL PATHWAY REGULATORY GENE  
; NUMBER OF SEQUENCES: 202  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fish & Richardson P.C.  
; STREET: 225 Franklin Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02110-2804  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: Windows 95  
; SOFTWARE: FastSEQ for Windows Version 2.0b  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/711,417C  
; FILING DATE: 05-Sep-1996  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/238,212  
; FILING DATE: 02-MAY-1994  
; APPLICATION NUMBER: 08/121,438  
; FILING DATE: 14-SEP-1993  
; APPLICATION NUMBER: 07/946,233  
; FILING DATE: 14-SEP-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Mvers, Louis P.  
; REGISTRATION NUMBER: 35,965  
; REFERENCE/DOCKET NUMBER: 10287/007001  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617/542-5070  
; TELEFAX: 617/542-8906  
; TELEX: 200154  
; INFORMATION FOR SEQ ID NO: 165:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1551 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; FEATURE:  
; NAME/KEY: Coding Sequence  
; LOCATION: 1...1548  
; SEQUENCE DESCRIPTION: SEQ ID NO: 165:

US-08-711-417C-165

1021 CCGGTATACAGCCCGATGTACAGCTGCAGCGCTCGAGGGGACCCCGCGCTCCAC 1080  
 Db 1021 CCGGTATACAGCCCGATGTACAGCTGCAGCGCTCGAGGGGACCCCGCGCTCCAC 1080  
 Qy 1081 CACTCGGCCAGGACAGCGCGGTGGAGTACCTGCTGCTCTCCAAAGCCAAAGTGGTG 1140  
 Db 1081 CACTCGGCCAGGACAGCGCGGTGGAGTACCTGCTGCTCTCCAAAGCCAAAGTGGTG 1140  
 Qy 1141 CCCTCGGAGCGAGGCGTCCCGGAGCAAGCTGCCAAGACTCCACGAGACCCGAGAGC 1200  
 Db 1141 CCCTCGGAGCGAGGCGTCCCGGAGCAAGCTGCCAAGACTCCACGAGACCCGAGAGC 1200  
 Qy 1201 AACAGAGGAGGAGCGCGGTGCTTATCTACCTGACCAACCACTCCGCCGAGCGCG 1260  
 Db 1201 AACAGAGGAGGAGCGCGGTGCTTATCTACCTGACCAACCACTCCGCCGAGCGCG 1260  
 Qy 1261 CAACGCGTGTGCTCAAGGAGGAGGAGCGCGCTTACACCTGCTGCGCGCGCTCCGAG 1320  
 Db 1261 CAACGCGTGTGCTCAAGGAGGAGGAGCGCGCTTACACCTGCTGCGCGCGCTCCGAG 1320  
 Qy 1321 AACTCGAGGAGCGCGCTCCCGGTGCTGATCAGCAGCGGAGGAGGAGGAGGAGGAG 1380  
 Db 1321 AACTCGAGGAGCGCGCTCCCGGTGCTGATCAGCAGCGGAGGAGGAGGAGGAGGAG 1380  
 Qy 1381 TCGGAACACTGCGCGGTGCTTCTTCTGATCAGCAGCTGATCAGCAGCTGATCAGCAG 1440  
 Db 1381 TCGGAACACTGCGCGGTGCTTCTTCTGATCAGCAGCTGATCAGCAGCTGATCAGCAG 1440  
 Qy 1441 CAGCGGTGCTGATCAGCTTCTGATGCAACATGTCGCGGTGATCAGCAGCTGATCAGCAG 1500  
 Db 1441 CAGCGGTGCTGATCAGCTTCTGATGCAACATGTCGCGGTGATCAGCAGCTGATCAGCAG 1500  
 Qy 1501 GAGTTCCTGCTGCAACATAACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1551  
 Db 1501 GAGTTCCTGCTGCAACATAACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1551

RESULT 2  
 ; US-08-465-590-3  
 ; Sequence 3, Application US/08465590  
 ; Patent No. 5824770  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Georgopoulos, Katia A.  
 ; TITLE OF INVENTION: IKAROS: A T CELL PATHWAY REGULATORY GENE  
 ; NUMBER OF SEQUENCES: 164  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: LAHIVE & COCKFIELD  
 ; STREET: 60 STATE STREET, Suite 510  
 ; CITY: BOSTON  
 ; STATE: MASSACHUSETTS  
 ; COUNTRY: USA  
 ; ZIP: 02109  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: ASCII (text)  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/465,590  
 ; FILING DATE: 05-JUN-1995  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 08/238,212  
 ; FILING DATE: 02-MAY-1994  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 08/121,438  
 ; FILING DATE: 14-SEP-1993  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 07/946,233  
 ; FILING DATE: 14-SEP-1992  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Myers, Paul L.  
 ; REGISTRATION NUMBER: 35,695

Query Match 100.0%; Score 1551; DB 4; Length 1551;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 1551; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGGATGCTGACGAGGGTCAAGACATGCTCTTCTCATCAGGGAAGAAAGCCCTGTGA 60  
 Db 1 ATGGATGCTGACGAGGGTCAAGACATGCTCTTCTCATCAGGGAAGAAAGCCCTGTGA 60  
 Qy 61 AGCGATCTCCAGATGAGGGGATGAGCCCATGCGGATCCCGAGGACCTCTCCACCAAC 120  
 Db 61 AGCGATCTCCAGATGAGGGGATGAGCCCATGCGGATCCCGAGGACCTCTCCACCAAC 120  
 Qy 121 TCGGAGGAGCAGCAAGCTTCCAAAGAGTGCACAGAGTGTGCGGCGAGTAATGTTAAAGTAGAG 180  
 Db 121 TCGGAGGAGCAGCAAGCTTCCAAAGAGTGCACAGAGTGTGCGGCGAGTAATGTTAAAGTAGAG 180  
 Qy 181 ACTCAGAGTGAAGAGAAATGGGCGTGCCTGTGAATGAATGGGAAGAAATGTCCGAG 240  
 Db 181 ACTCAGAGTGAAGAGAAATGGGCGTGCCTGTGAATGAATGGGAAGAAATGTCCGAG 240  
 Qy 241 GATTACGAATGCTTGCATGCTCGGAGAGAAATGAATGGTCCACAGGAGCAAGGC 300  
 Db 241 GATTACGAATGCTTGCATGCTCGGAGAGAAATGAATGGTCCACAGGAGCAAGGC 300  
 Qy 301 AGCTCGGCTTTGTCGGGAGTGTGAGGCAATCGACTTCCCTAAACGGGAAACTAAAGTGTGAT 360  
 Db 301 AGCTCGGCTTTGTCGGGAGTGTGAGGCAATCGACTTCCCTAAACGGGAAACTAAAGTGTGAT 360  
 Qy 361 ATCTGTGGGATCATTTGCATCGGCGCCAAATGTCATGCTCATCAAGAGAGCCACACT 420  
 Db 361 ATCTGTGGGATCATTTGCATCGGCGCCAAATGTCATGCTCATCAAGAGAGCCACACT 420  
 Qy 421 GGAGAACGGCCCTTCAGTGCATCAGTGGGGGCTCATTTACACCCAGAGGAGCAACCTG 480  
 Db 421 GGAGAACGGCCCTTCAGTGCATCAGTGGGGGCTCATTTACACCCAGAGGAGCAACCTG 480  
 Qy 481 CTCGGGACATCAAGCTGCAATTCGCGGAGGAGAGCCCTTCAATGCCACCTCTGCAACTAC 540  
 Db 481 CTCGGGACATCAAGCTGCAATTCGCGGAGGAGAGCCCTTCAATGCCACCTCTGCAACTAC 540  
 Qy 541 GCCTCGCGCGGAGGAGGCGCCCTCAGTGGCCACCTGAGGAGCGACTCCGTTGGTAAACCT 600  
 Db 541 GCCTCGCGCGGAGGAGGCGCCCTCAGTGGCCACCTGAGGAGCGACTCCGTTGGTAAACCT 600  
 Qy 601 CACAAATGTGGATATGTGGCGGAGCTATAACAGCAGCAAGCTTTAGAGGACATAA 660  
 Db 601 CACAAATGTGGATATGTGGCGGAGCTATAACAGCAGCAAGCTTTAGAGGACATAA 660  
 Qy 661 GAGCGCTGCCAACAATCTTGAAGAGTGGCGCTTCGGGACACTGTACCCAGTCAAT 720  
 Db 661 GAGCGCTGCCAACAATCTTGAAGAGTGGCGCTTCGGGACACTGTACCCAGTCAAT 720  
 Qy 721 AAAGAGAACTAAGCAGAGTGAATGGCAGAGACCTGTGCAAGATAGGATCAGAGAGA 780  
 Db 721 AAAGAGAACTAAGCAGAGTGAATGGCAGAGACCTGTGCAAGATAGGATCAGAGAGA 780  
 Qy 781 TCCTCTGCTGTGACAGATAGCAGATGATGCGCAACAGTGAAGAGCTTATGCTCAG 840  
 Db 781 TCCTCTGCTGTGACAGATAGCAGATGATGCGCAACAGTGAAGAGCTTATGCTCAG 840  
 Qy 841 AAATTTCTTGGGACAAAGGCGCTTCGACAGCGCCCTAGCAGAGTGCACGCTAGCAGAG 900  
 Db 841 AAATTTCTTGGGACAAAGGCGCTTCGACAGCGCCCTAGCAGAGTGCACGCTAGCAGAG 900  
 Qy 901 GAGAACGAATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 960  
 Db 901 GAGAACGAATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 960  
 Qy 961 CTGGGGCGGAGTCCCTCGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1020  
 Db 961 CTGGGGCGGAGTCCCTCGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1020

REFERENCE/DOCKET NUMBER: MPG-006C2DV  
TELEPHONE: (617)227-7400  
TELEFAX: (617)227-5941  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1386 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: cdna  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..1386  
US-08-465-590-3

Query Match 89.4%; Score 1386; DB 1; Length 1386;  
Best Local Similarity 100.0%; Pred. No. 1.3e-311;  
Matches 1386; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 166 AATGTTAAAGTAGAGACTAGAGTATGATGAAGAGAAATGGCGCTGTGAAATGAATGGG 225  
DB 1 AATGTTAAAGTAGAGACTAGAGTATGATGAAGAGAAATGGCGCTGTGAAATGAATGGG 60

QY 226 GAAGAATGTGCGGAGGATTTAGCAATGCTTATGCTCGGAGAGAAATGAATGGCTCC 285  
DB 61 GAAGAATGTGCGGAGGATTTAGCAATGCTTATGCTCGGAGAGAAATGAATGGCTCC 120

QY 286 CACAGGACCAAGGAGCGCTGCTTTCGCGGAGTTGGAGGCAATTCGACTTCCTAACGGA 345  
DB 121 CACAGGACCAAGGAGCGCTGCTTTCGCGGAGTTGGAGGCAATTCGACTTCCTAACGGA 180

QY 346 AAACHTAAAGTGTATATCTGTGGGATCATTTGCAATCGGGGCCAATGTCTCATGTTTAC 405  
DB 181 AAACHTAAAGTGTATATCTGTGGGATCATTTGCAATCGGGGCCAATGTCTCATGTTTAC 240

QY 406 AAAAGAGCCACACTGGAGAGCGCTTCCAGTGCATCAGTCGGGGGCTCATTCACC 465  
DB 241 AAAAGAGCCACACTGGAGAGCGCTTCCAGTGCATCAGTCGGGGGCTCATTCACC 300

QY 466 CAGAGGCAACCTGTCTCCGGACATCAAGCTGCTTCCGGGAGAGCGCTTCAAAATGC 525  
DB 301 CAGAGGCAACCTGTCTCCGGACATCAAGCTGCTTCCGGGAGAGCGCTTCAAAATGC 360

QY 526 CACCTCTGCAACTACGCTGCGCGGAGGAGCGCTTCACTGGCCACCTTGAGGAGCGAC 585  
DB 361 CACCTCTGCAACTACGCTGCGCGGAGGAGCGCTTCACTGGCCACCTTGAGGAGCGAC 420

QY 586 TCCGTTGGTAAACCTCAAAATGTGGATATTTGGCGGAGCTATTAACAGCGAAGCTGT 645  
DB 421 TCCGTTGGTAAACCTCAAAATGTGGATATTTGGCGGAGCTATTAACAGCGAAGCTGT 480

QY 646 TTAGAGCAACATAAGAGCGCTGCCACAATCTTGGAAAGCATGGGCTTCCGGGCACA 705  
DB 481 TTAGAGCAACATAAGAGCGCTGCCACAATCTTGGAAAGCATGGGCTTCCGGGCACA 540

QY 706 CTGTACCCAGTCAATTAAGAGAAACTAGCACAGTGAATGCGCAAGAACCTGTGCAAG 765  
DB 541 CTGTACCCAGTCAATTAAGAGAAACTAGCACAGTGAATGCGCAAGAACCTGTGCAAG 600

QY 766 ATAGGATCAGAGATCTCTCGTGTGGACAGTAGCAAGTAATGTCGCCAAACGTAAG 825  
DB 601 ATAGGATCAGAGATCTCTCGTGTGGACAGTAGCAAGTAATGTCGCCAAACGTAAG 660

QY 826 AGCTCTATGCTCAGAAATTTCTTGGGCAAGAGGCGCTGTCCGACACGCGCTTACGACAGT 885  
DB 661 AGCTCTATGCTCAGAAATTTCTTGGGCAAGAGGCGCTGTCCGACACGCGCTTACGACAGT 720

QY 886 GCCACGTACGAGAGGAGAACCAATGATGAAGTCCGACGTGATGGACCAAGCCATCAAC 945  
DB 721 GCCACGTACGAGAGGAGAACCAATGATGAAGTCCGACGTGATGGACCAAGCCATCAAC 780

QY 946 AACGCCATCAACTACTGGGGCCAGTCCCTTGCCCGCTGGTGCAGACGCCCGCCGGG 1005  
DB 781 AACGCCATCAACTACTGGGGCCAGTCCCTTGCCCGCTGGTGCAGACGCCCGCCGGG 840

QY 1006 GTTCCGAGGTGGTCCCGTTCATCAGCCCGATGTACCAAGCTGCACAGCGCTCCGAGGGC 1065  
DB 841 GTTCCGAGGTGGTCCCGTTCATCAGCCCGATGTACCAAGCTGCACAGCGCTCCGAGGGC 900

QY 1066 ACCCGCGCTCCAACTCGGCCCCAGACAGCGCCGTGGAGTACCTGTCTCTCTCC 1125  
DB 901 ACCCGCGCTCCAACTCGGCCCCAGACAGCGCGCTGGAGTACCTGTCTCTCTCC 960

QY 1126 AAGCCCAAGTTGGTGGCTCGGAGCGGAGCGCTCCCGAGCAACAGCTGCCAAGACTCC 1185  
DB 961 AAGCCCAAGTTGGTGGCTCGGAGCGGAGCGCTCCCGAGCAACAGCTGCCAAGACTCC 1020

QY 1186 ACGGACCCGAGAGCAACAGGAGGAGCAGCGAGCGCTTATCTACCTGACCAACCAC 1245  
DB 1021 ACGGACCCGAGAGCAACAGGAGGAGCAGCGAGCGCTTATCTACCTGACCAACCAC 1080

QY 1246 ATCCCGCGAGCGCGCAACCGCTTCCGCTCAAGGAGGAGCAGCGCGCTACGACCTGCTG 1305  
DB 1081 ATCCCGCGAGCGCGCAACCGCTTCCGCTCAAGGAGGAGCAGCGCGCTACGACCTGCTG 1140

QY 1306 CGCGCGCTCCGAGACTCGCAGGAGCGCTCCGCTGAGGAGGAGCAGCGCGCTGCTG 1365  
DB 1141 CGCGCGCTCCGAGACTCGCAGGAGCGCTCCGCTGAGGAGGAGCAGCGCGCTGCTG 1200

QY 1366 ATGAAGTGTACAGTCCGAACTCGCGGCTCTTCTCGGATCACCTCATGTACACC 1425  
DB 1201 ATGAAGTGTACAGTCCGAACTCGCGGCTCTTCTCGGATCACCTCATGTACACC 1260

QY 1426 ATCCATATGGCTGCCAGCGCTTCCGCTGATCTTTAGTGCACATGTGCGGCTACACC 1485  
DB 1261 ATCCATATGGCTGCCAGCGCTTCCGCTGATCTTTAGTGCACATGTGCGGCTACACC 1320

QY 1486 AGCCAGGACCGGTACAGTTCCTCGTGCACATTAACCGGAGGAGCAGCGCTTCCACATG 1545  
DB 1321 AGCCAGGACCGGTACAGTTCCTCGTGCACATTAACCGGAGGAGCAGCGCTTCCACATG 1380

QY 1546 AGCTAA 1551  
DB 1381 AGCTAA 1386

RESULT 3  
US-08-283-300A-2  
; Sequence 2, Application US/08283300A  
; Patent No. 6172278  
; GENERAL INFORMATION:  
; APPLICANT: Georgopoulos, Katia A.  
; TITLE OF INVENTION: IXAROS TRANSGENIC CELLS AND ANIMALS  
; NUMBER OF SEQUENCES: 26  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: LAHIVE & COCKFIELD  
; STREET: 60 STATE STREET, Suite 510  
; CITY: BOSTON  
; STATE: MASSACHUSETTS  
; COUNTRY: USA  
; ZIP: 02109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: ASCII (text)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/283,300A  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/238,212  
; FILING DATE: 02-MAY-94  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/121,438

Wed Aug 28 10:00:38 2002

; FILING DATE: 14-SEP-1993  
 ; PRIOR APPLICATION DATA: US 07/946,233  
 ; APPLICATION NUMBER: 14-SEP-1992  
 ; FILING DATE: 14-SEP-1992  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Myers, Paul L.  
 ; REGISTRATION NUMBER: 35,695  
 ; REFERENCE/DOCKET NUMBER: MSP-027  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (617)227-7400  
 ; TELEFAX: (617)227-5941  
 ; INFORMATION FOR SEQ ID NO: 2:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 1386 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: double  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: cDNA  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: 1..1386  
 ;  
 ; US-08-283-300A-2

Query Match 89.4%; Score 1386; DB 4; Length 1386;  
 Best Local Similarity 100.0%; Pred. No. 1.3e-311;  
 Matches 1386; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	166	AAATGTTAAAGTACAGACTCAGAGTGTATGAGAAATGGCGTGCCTGTGAAATGAATGGG	225
Db	1	AAATGTTAAAGTACAGACTCAGAGTGTATGAGAAATGGCGTGCCTGTGAAATGAATGGG	60
QY	226	GAAGAAATGTGCGGAGGATTTACGAATGCTTGATGCTCGGAGAGAGAAATGAATGCTCC	285
Db	61	GAAGAAATGTGCGGAGGATTTACGAATGCTTGATGCTCGGAGAGAGAAATGAATGCTCC	120
QY	286	CACAGGACCAAGCAGCTCGGCTTTGTCGGAGTTGGAGGCATTTCAGCTTCCTAACGGA	345
Db	121	CACAGGACCAAGCAGCTCGGCTTTGTCGGAGTTGGAGGCATTTCAGCTTCCTAACGGA	180
QY	346	AAACTAAAGTGTGATATCTGTGGATCATTTGATGCTCGGAGGAGGAGGAGGAGGAGG	405
Db	181	AAACTAAAGTGTGATATCTGTGGATCATTTGATGCTCGGAGGAGGAGGAGGAGGAGG	240
QY	406	AAAAGAGCCACATGGAGACGCGCTTCCAGTGCAATCAGTGGCGGCTCATTCAC	465
Db	241	AAAAGAGCCACATGGAGACGCGCTTCCAGTGCAATCAGTGGCGGCTCATTCAC	300
QY	466	CAGAGGGCAACCTGCTCCGGCAGATCAAGCTGATTCGGGGAGAGAGCCCTTCAATGC	525
Db	301	CAGAGGGCAACCTGCTCCGGCAGATCAAGCTGATTCGGGGAGAGAGCCCTTCAATGC	360
QY	526	CACCTCTCAACTAGCGCTCGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	585
Db	361	CACCTCTCAACTAGCGCTCGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	420
QY	586	TCCGTTGTAAACCTCAAAATGTGGATTTGTGGCGGAGGAGGAGGAGGAGGAGGAGG	645
Db	421	TCCGTTGTAAACCTCAAAATGTGGATTTGTGGCGGAGGAGGAGGAGGAGGAGGAGG	480
QY	646	TTAGAGGAACATPAAAGAGCGTGGCAGCACTACTTTGGAAACATGCGGCTTCCGGG	705
Db	481	TTAGAGGAACATPAAAGAGCGTGGCAGCACTACTTTGGAAACATGCGGCTTCCGGG	540
QY	706	CTGTACCCAGTCAATTAAGAGAAACTAAGCAGTGAATGGCAGAGAGGAGGAGGAGG	765
Db	541	CTGTACCCAGTCAATTAAGAGAAACTAAGCAGTGAATGGCAGAGAGGAGGAGGAGG	600
QY	766	ATAGGATCAGAGATCTCTCGTGTGGACAGCTAGCAAGTAATGTGCGCAACAGTAA	825
Db	601	ATAGGATCAGAGATCTCTCGTGTGGACAGCTAGCAAGTAATGTGCGCAACAGTAA	660
QY	826	AGCTCTATGCCTCAGAAATTTCTTGGGAGCAGGCGCTTCCGACACGCGCTTACGAC	885

Db	661	AGCTCTATGCCTCAGAAATTTCTTGGGACAAAGGCGCTGCTCCGACACGCGCTTACGAC	720
QY	886	GCACGCTACGAGAGGAGAAATGATGAGTCCAGGTGATGAGCAAGCAAGCAATCAAC	945
Db	721	GCACGCTACGAGAGGAGAAATGATGAGTCCAGGTGATGAGCAAGCAAGCAATCAAC	780
QY	946	AACGCCATCAACTACCTTGGGGCCGAGTCCCTGCGCCCGCTGCTGCGAGACGCGCGG	1005
Db	781	AACGCCATCAACTACCTTGGGGCCGAGTCCCTGCGCCCGCTGCTGCGAGACGCGCGG	840
QY	1006	GGTTCGAGGTGCTCCCGGTTCATCAGCCGATGATACAGTGCACAGGCGCTCGGAGGC	1065
Db	841	GGTTCGAGGTGCTCCCGGTTCATCAGCCGATGATACAGTGCACAGGCGCTCGGAGGC	900
QY	1066	ACCCGCGCTCCAAACCACTCGGCCAGGACAGCGCGTGGAGTACCTGTGCTGTCTCC	1125
Db	901	ACCCGCGCTCCAAACCACTCGGCCAGGACAGCGCGTGGAGTACCTGTGCTGTCTCC	960
QY	1126	AAGCCAAAGTTGCTCGGAGCGGAGCGGTCCCGGAGCAACAGCTGCGCAAGACTCC	1185
Db	961	AAGCCAAAGTTGCTCGGAGCGGAGCGGTCCCGGAGCAACAGCTGCGCAAGACTCC	1020
QY	1186	ACGACACCGAGAGCAACACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	1245
Db	1021	ACGACACCGAGAGCAACACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	1080
QY	1246	ATCCCGGAGCGCGCAACCGGTGCTCTCAAGGAGGAGGAGGAGGAGGAGGAGGAGG	1305
Db	1081	ATCCCGGAGCGCGCAACCGGTGCTCTCAAGGAGGAGGAGGAGGAGGAGGAGGAGG	1140
QY	1306	CGCGCGGCTCCGAGAACTCCGAGGAGCGCTCCGCGGTGTCAGCAGCAGCGGGAGCAG	1365
Db	1141	CGCGCGGCTCCGAGAACTCCGAGGAGCGCTCCGCGGTGTCAGCAGCAGCGGGAGCAG	1200
QY	1366	ATGAGGTGTACAAGTGGAACTGCGCGGTGCTCTTCTCGATCATGATGATGATGATG	1425
Db	1201	ATGAGGTGTACAAGTGGAACTGCGCGGTGCTCTTCTCGATCATGATGATGATGATG	1260
QY	1426	ATCCACATGGGTGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	1485
Db	1261	ATCCACATGGGTGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	1320
QY	1486	AGCCAGGAGCGGTACGAGTTCGTCGACATACGCGAGGAGGAGGAGGAGGAGGAGG	1545
Db	1321	AGCCAGGAGCGGTACGAGTTCGTCGACATACGCGAGGAGGAGGAGGAGGAGGAGG	1380
QY	1546	AGCTAA 1551	
Db	1381	AGCTAA 1386	

RESULT 4  
 US-08-711-417c-3  
 ; Sequence 3, Application US/08711417C  
 ; Patent No. 6228611  
 ;  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Georgopoulos, Katia A.  
 ; TITLE OF INVENTION: IKAROS: A T CELL PATHWAY REGULATORY GENE  
 ; NUMBER OF SEQUENCES: 202  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSER: Fish & Richardson P.C.  
 ; STREET: 225 Franklin Street  
 ; CITY: Boston  
 ; STATE: MA  
 ; COUNTRY: USA  
 ; ZIP: 02110-2804  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Diskette  
 ; OPERATING SYSTEM: Windows 95  
 ; SOFTWARE: FastSeq for Windows Version 2.0b  
 ; CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/711.417C  
 FILING DATE: 05-Sep-1996  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/238,212  
 FILING DATE: 02-MAY-1994  
 APPLICATION NUMBER: 08/121,438  
 FILING DATE: 14-SEP-1993  
 APPLICATION NUMBER: 07/946,233  
 FILING DATE: 14-SEP-1992  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Myers, Louis P.  
 REGISTRATION NUMBER: 35,965  
 REFERENCE/DOCKET NUMBER: 10287/007001  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 617/542-5070  
 TELEFAX: 617/542-8906  
 TELEX: 200154  
 INFORMATION FOR SEQ ID NO: 3:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 1386 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: double  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 FEATURE:  
 NAME/KEY: Coding Sequence  
 LOCATION: 1..1383  
 SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
 US-08-711-417C-3

Query Match 89.4%; Score 1386; DB 4; Length 1386;  
 Best Local Similarity 100.0%; Pred. No. 1.3e-311; Indels 0; Gaps 0;  
 Matches 1386; Conservative 0; Mismatches 0;

166 AATCTTAACTAGACTCAGATGATGAGAGATGGCGTGCCTGTGAAATGAATGGG 225  
 Db 1 AATGTTAAAGTAGACTCAGATGATGAGAGATGGCGTGCCTGTGAAATGAATGGG 60

226 GAAGATGTGCGGAGGATTTACCAATGCTTGATGCTCGGAGAGAAATGAATGGCTCC 285  
 Db 61 GAAGATGTGCGGAGGATTTACCAATGCTTGATGCTCGGAGAGAAATGAATGGCTCC 120

286 CACAGGACCAAGGAGCTCGGCTTGTGCGGAGTTGAGGCAATTCGACTTCCCTAACGGA 345  
 Db 121 CACAGGACCAAGGAGCTCGGCTTGTGCGGAGTTGAGGCAATTCGACTTCCCTAACGGA 180

346 AAATAAGTGTGATATCTGTGGGATCATTTGATCAGCGGCAATTCGACTTCCCTAACGGA 405  
 Db 181 AAATAAGTGTGATATCTGTGGGATCATTTGATCAGCGGCAATTCGACTTCCCTAACGGA 240

406 AAAGAAGCCACACTGGAGACGGCCCTTCCAGTCAATCAGTGGGGCCCTCATTCACC 465  
 Db 241 AAAGAAGCCACACTGGAGACGGCCCTTCCAGTCAATCAGTGGGGCCCTCATTCACC 300

466 CAGAAGGCAACCTGCTCGGACATCAAGCTGCATTCGGGGAGAGCCCTTCAAATGC 525  
 Db 301 CAGAAGGCAACCTGCTCGGACATCAAGCTGCATTCGGGGAGAGCCCTTCAAATGC 360

526 CACCTCTGCAACTAGCCTGCGCGGAGGACGCCCTCACTGGCCACCTGAGGAGCCAC 585  
 Db 361 CACCTCTGCAACTAGCCTGCGCGGAGGACGCCCTCACTGGCCACCTGAGGAGCCAC 420

586 TCCGTTGGTAAACCTCACAAATGTGGATATTGTGGCGGAAGCTATAAACAGCAAGCTCT 645  
 Db 421 TCCGTTGGTAAACCTCACAAATGTGGATATTGTGGCGGAAGCTATAAACAGCAAGCTCT 480

646 TTAGAGAACATAAAGAGCGCTGCACAACCTACTTTGAAAGCATGGCCCTTCGGGGCACA 705  
 Db 481 TTAGAGAACATAAAGAGCGCTGCACAACCTACTTTGAAAGCATGGCCCTTCGGGGCACA 540

706 CTGTACCAGTCATTAAGAGAACTAAGCACAGTGAATGGCAGAACTGTGCAAG 765  
 Db 706 CTGTACCAGTCATTAAGAGAACTAAGCACAGTGAATGGCAGAACTGTGCAAG 765

Db 541 CTGTACCAGTCATTAAGAGAACTAAGCACAGTGAATGGCAGAACTGTGCAAG 600  
 QY 766 ATAGGATCAGAGAGATCTCTGCTGGACAGACTAGCAGATGATGTGCGCAACGTAAG 825  
 Db 601 ATAGGATCAGAGAGATCTCTGCTGGACAGACTAGCAGATGATGTGCGCAACGTAAG 660  
 QY 826 AGCTCTATGCTCAGAAATTTCTTTGGGACAAGGGCTGCTCCGACAGCCCTACGACAGT 885  
 Db 661 AGCTCTATGCTCAGAAATTTCTTTGGGACAAGGGCTGCTCCGACAGCCCTACGACAGT 720  
 QY 886 GCCAGTACGAGAGAGAAATGATGAAGTCCACCTGATGGACCAAGCCATCAAC 945  
 Db 721 GCCAGTACGAGAGAGAAATGATGAAGTCCACCTGATGGACCAAGCCATCAAC 780  
 QY 946 AACGCCATCAACTACTGGGGGCGAGTCCCTCGGCCGCTGGTGCAGAGCGCCCGGGG 1005  
 Db 781 AACGCCATCAACTACTGGGGGCGAGTCCCTCGGCCGCTGGTGCAGAGCGCCCGGGG 840  
 QY 1006 GGTTCGAGGTGGTCCCGGTATCAGCCCGATGACAGTCCCGGTGAGTACCTGCTGCTCTCC 1125  
 Db 841 GGTTCGAGGTGGTCCCGGTATCAGCCCGATGACAGTCCCGGTGAGTACCTGCTGCTCTCC 960  
 QY 1126 AAGCCCAAGTTGGTCCCTCGGAGCGGAGGCGTCCCGGAGCAACAGTGTGCAAGACTCC 1185  
 Db 961 AAGCCCAAGTTGGTCCCTCGGAGCGGAGGCGTCCCGGAGCAACAGTGTGCAAGACTCC 1020  
 QY 1186 ACGGACACCGAGAGCAACACAGGAGCGAGCGGCTTATCTACTGACCAACAC 1245  
 Db 1021 ACGGACACCGAGAGCAACACAGGAGCGAGCGGCTTATCTACTGACCAACAC 1080  
 QY 1246 ATGCGCGGAGCGGCAACGCGTGTGCTGCTCAAGGAGGAGACCGCGCTTACGACTGCTG 1305  
 Db 1081 ATGCGCGGAGCGGCAACGCGTGTGCTGCTCAAGGAGGAGACCGCGCTTACGACTGCTG 1140  
 QY 1306 CGCGCGGCTTCCGAGAACTCGAGGACGGCTCCGCTGAGGAGGAGACCGCGCTTACGACTG 1365  
 Db 1141 CGCGCGGCTTCCGAGAACTCGAGGACGGCTCCGCTGAGGAGGAGACCGCGCTTACGACTG 1200  
 QY 1366 ATGAAGTGTACAGTCCGAACTCGCGGCTGCTTCTTCTGGATCAGTGTACAC 1425  
 Db 1201 ATGAAGTGTACAGTCCGAACTCGCGGCTGCTTCTTCTGGATCAGTGTACAC 1260  
 QY 1426 ATCCACATGGGCTGCACGGCTTCCGCTGATCCTTTTGTAGTCAACATGTGCGGCTAC 1485  
 Db 1261 ATCCACATGGGCTGCACGGCTTCCGCTGATCCTTTTGTAGTCAACATGTGCGGCTAC 1320  
 QY 1486 AGCCAGGACCGTACGAGTTCGTCGCACATAACGCGAGGGAGACCGCTTCCACATG 1545  
 Db 1321 AGCCAGGACCGTACGAGTTCGTCGCACATAACGCGAGGGAGACCGCTTCCACATG 1380  
 QY 1546 AGCTAA 1551  
 Db 1381 AGCTAA 1386

RESULT 5  
 PCT-US95-09345-2  
 ; Sequence 2, Application PC/TUS9509345  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Georgopoulos, Katia A.  
 ; TITLE OF INVENTION: IKAROS TRANSGENIC CELLS AND ANIMALS  
 ; NUMBER OF SEQUENCES: 26  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: LAHIVE & COCKFIELD  
 ; STREET: 60 STATE STREET, Suite 510  
 ; CITY: BOSTON  
 ; STATE: MASSACHUSETTS  
 ; COUNTRY: USA  
 ; ZIP: 02109



; TITLE OF INVENTION: IKAROS: A T CELL PATHWAY REGULATORY GENE  
 ; NUMBER OF SEQUENCES: 152  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: ASCII  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: PCT/US93/08743  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 946,233  
 ; FILING DATE: 14-SEP-1992  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (617)227-7400  
 ; TELEFAX: (617)227-5941  
 ; INFORMATION FOR SEQ ID NO: 3:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 1611 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: cDNA  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: 1..1611  
 ; PCT-US93-08743-3

Query Match 89.1%; Score 1382.4; DB 5; Length 1611;  
 Best Local Similarity 99.6%; Pred. No. 9.5e-311;  
 Matches 1386; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 160 GCCAGTAATGTTAAAGTAGAGACTCAGAGTGATGAGAGAAATGGGCTGCTGAAATG 219  
 DB 217 GCCAGTAATGTTAAAGTAGAGACTCAGAGTGATGAGAGAAATGGGCTGCTGAAATG 276  
 QY 220 AATGGGGAAGAATGTGGGAGGATTTACGAATGTTGATGCCCTCGGAGAGAAATGAAT 279  
 DB 277 AATGGGGAAGAATGTGGGAGGATTTACGAATGTTGATGCCCTCGGAGAGAAATGAAT 336  
 QY 280 GGCTCCACAGGACCAAGGACAGCTCGGCTTTGTCGGGAGTTGGAGGCAATTCGACTTCCT 339  
 DB 337 GGCTCCACAGGACCAAGGACAGCTCGGCTTTGTCGGGAGTTGGAGGCAATTCGACTTCCT 396  
 QY 340 AACGGAAACTAAAGTGTGATATCTGTGGGATCATTTGGATCGGGCCCCAATGTGTCATG 399  
 DB 397 AACGGAAACTAAAGTGTGATATCTGTGGGATCATTTGGATCGGGCCCCAATGTGTCATG 456  
 QY 400 GTTCACAAAAGAGCCACACTGTCGGGCACATCAAGCTGCATTCGGGGGAGAGCCCTTC 519  
 DB 457 GTTCACAAAAGAGCCACACTGTCGGGCACATCAAGCTGCATTCGGGGGAGAGCCCTTC 576  
 QY 520 AAATGCCACTCTGCAACTACGCTGCCCGCGAGGAGGAGCCCTCACTGGCCACCTGAGG 579  
 DB 577 AAATGCCACTCTGCAACTACGCTGCCCGCGAGGAGGAGCCCTCACTGGCCACCTGAGG 636  
 QY 580 ACGCACTCGGTTGGTAAACCTCACAAATGTGATATTTGGCCGAAGCTATAAAGAGCGA 639  
 DB 637 ACGCACTCGGTTGGTAAACCTCACAAATGTGATATTTGGCCGAAGCTATAAAGAGCGA 696  
 QY 640 ACGTCTTTAGAGACATAAAGAGCGCTGCCACAACACTACTTGGAAAGCATGGCCCTCCG 699  
 DB 697 ACGTCTTTAGAGACATAAAGAGCGCTGCCACAACACTACTTGGAAAGCATGGCCCTCCG 756  
 QY 700 GGCACACTGTACCCAGTCAATTAAGAGAACTAAGACAGTGAATGGCAGAGACCTG 759  
 DB 757 GGCACACTGTACCCAGTCAATTAAGAGAACTAAGACAGTGAATGGCAGAGACCTG 816  
 QY 760 TGCAAGATAGGATCAGAGAGATCTCTCGTGTGGACACTAGCAAGTAATGTGCCCAA 819

DB 817 TGCAAGATAGGATCAGAGAGATCTCTGCTGCTGACACAGACTAGCAAGTAATGTGCCAAA 876  
 QY 820 CGTAAGAGCTCTATGCTCTAGAAATTTCTTTGGGACAAGGGCTCTCCGACACGCCCTAC 879  
 DB 877 CGTAAGAGCTCTATGCTCTAGAAATTTCTTTGGGACAAGGGCTCTCCGACACGCCCTAC 936  
 QY 880 GACAGTCCACAGTACGAGAGGAGAGAAATGATGAATGCCACGTGATGGACCAAGCC 939  
 DB 937 GACAGTCCACAGTACGAGAGGAGAGAAATGATGAATGCCACGTGATGGACCAAGCC 996  
 QY 940 ATCAACAACGCCCATCAACTACCTGGGGGCGGAGTCCCTCGGCCGCTGGTGAGAGCGCC 999  
 DB 997 ATCAACAACGCCCATCAACTACCTGGGGGCGGAGTCCCTCGGCCGCTGGTGAGAGCGCC 1056  
 QY 1000 CCGGGGGTTCCGAGTGTTCGGGTTCATCAGCCCGATGATGAGTGCACAGGCGCTCG 1059  
 DB 1057 CCGGGGGTTCCGAGTGTTCGGGTTCATCAGCCCGATGATGAGTGCACAGGCGCTCG 1116  
 QY 1060 GAGGGCACCCCGGCTCCCAACCACTCGGCCAGGACAGCGCGTGGAGTACCTGTGCTG 1119  
 DB 1117 GAGGGCACCCCGGCTCCCAACCACTCGGCCAGGACAGCGCGTGGAGTACCTGTGCTG 1176  
 QY 1120 CTCTCCAAGGCCAAAGTTGTTGCTCGGAGCGGAGCGCTCCCGAGCAACAGCTGCCAA 1179  
 DB 1177 CTCTCCAAGGCCAAAGTTGTTGCTCGGAGCGGAGCGCTCCCGAGCAACAGCTGCCAA 1236  
 QY 1180 GACTCCACGGACACCGAGAGAGCAACAGGAGAGCGCGCTTTATCTTACCTGACC 1239  
 DB 1237 GACTCCACGGACACCGAGAGAGCAACAGGAGAGCGCGCTTTATCTTACCTGACC 1296  
 QY 1240 AACCACTACGCGCGGAGCGCAACCGCTGTCGCTCAAGGAGGACACCGCGCTTACGAC 1299  
 DB 1297 AACCACTACGCGCGGAGCGCAACCGCTGTCGCTCAAGGAGGACACCGCGCTTACGAC 1356  
 QY 1300 CTGCTCGCGCGCGCTCCGAGAACTCGCAGGACGCGCTCCGCTGAGCAACAGCGGG 1359  
 DB 1357 CTGCTCGCGCGCGCTCCGAGAACTCGCAGGACGCGCTCCGCTGAGCAACAGCGGG 1416  
 QY 1360 GAGCAGATGAAGGTGTACAAGTGCAGAACTGCTCCGGGTGCTTCTCTGGATCAGCTCATG 1419  
 DB 1417 GAGCAGATGAAGGTGTACAAGTGCAGAACTGCTCCGGGTGCTTCTCTGGATCAGCTCATG 1476  
 QY 1420 TACACCATCCATCGGCTGCCACGGCTTCGCTGATCCCTTTGAGTGCAACATGTGGGC 1479  
 DB 1477 TACACCATCCATCGGCTGCCACGGCTTCGCTGATCCCTTTGAGTGCAACATGTGGGC 1536  
 QY 1480 TACCACGCCAGGACCGGTACGAGTTCTCTCGCACATAACGCGAGGGAGCACCGCTTC 1539  
 DB 1537 TACCACGCCAGGACCGGTACGAGTTCTCTCGCACATAACGCGAGGGAGCACCGCTTC 1596  
 QY 1540 CACATGAGCTAA 1551  
 DB 1597 CACATGAGCTAA 1608

RESULT 7  
 US-08-465-590-5  
 ; Sequence 5, Application US/08465590  
 ; Patent No. 5824770  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Georgopoulos, Katia A.  
 ; TITLE OF INVENTION: IKAROS: A T CELL PATHWAY REGULATORY GENE  
 ; NUMBER OF SEQUENCES: 164  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: LAHIVE & COCKFIELD  
 ; STREET: 60 STATE STREET, Suite 510  
 ; CITY: BOSTON  
 ; STATE: MASSACHUSETTS  
 ; COUNTRY: USA  
 ; ZIP: 02109  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk

Wed Aug 28 10:00:38 2002

COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: ASCII (text)  
CURRENT APPLICATION DATA: US/08/465,590  
FILING DATE: 05-JUN-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/238,212  
FILING DATE: 02-MAY-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/121,438  
FILING DATE: 14-SEP-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/946,233  
FILING DATE: 14-SEP-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Myers, Paul L. 35,695  
REGISTRATION NUMBER:  
REFERENCE/DOCKET NUMBER: MPG-006C2DV  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617)227-7400  
TELEFAX: (617)227-5941  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2049 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 223..1776  
US-08-465-590-5

Query Match 75.7%; Score 1174.8; DB 1; Length 2049;  
Best Local Similarity 87.2%; Pred. No. 9.5e-263;  
Matches 1365; Conservative 0; Mismatches 177; Indels 24; Gaps 6;  
QY 1 ATGGATGCTCAGCAGGGTCAAGACATGTCTTCTCATCAGGAGGAAAGCCCTCTGTA 60  
DB 223 ATGGATGCTCAGGAGGTCAAGACATGTCTTCTCATCAGGAGGAAAGCCCTCTGTA 282  
QY 61 AGCGATCTCCAGATGAGGGCGATGAGCCATGCCATGCCGAGGACCTCTCCACACC 120  
DB 283 AGTGACACTCCAGATGAGGGGATGAGCCATGCCATGCCGAGGACCTCTCCACTACC 342  
QY 121 TCGGGAGGACAGCAAGCTCCAGAGTGCAGAGTGCAGAGTGCAGAGTGCAGAGTGCAG 180  
DB 343 TCTGGACACAGCAGAACTCCAAGAGTGCAGAGGATGCCAGTGCAGAGTGCAGAG 402  
QY 181 ACTCAGAGTGCAGAGAGATGGCGTGCCTGTGAATGAATGGGAAGAAATGTGCGGAG 240  
DB 403 ACTCAGAGTGCAGAGAGATGGCGTGCCTGTGAATGAATGGGAAGAAATGTGCGAG 462  
QY 241 GATTTACGAATGCTGTGATGCTCGGGAGAGAAATGAATGGCTCCACAGGGACCAAGGC 300  
DB 463 GATTTACGAATGCTGTGATGCTCGGGAGAGAAATGAATGGCTCCACAGGGACCAAGGC 522  
QY 301 AGCTCGGGTTTGTGCGGAGTTGAGGCAATTCGACTTCTTAACGGAAACTTAAAGTGTGAT 360  
DB 523 AGCTCGGGTTTGTGCGGAGTTGAGGCAATTCGACTTCTTAACGGAAACTTAAAGTGTGAT 582  
QY 361 ATCTGTGGGATCATTTGCATCGGGCCCAATGTGCTCATGTGTTCAAAAAGAGCCACACT 420  
DB 583 ATCTGTGGGATCGTTGATCGGGCCCAATGTGCTCATGTGTTCAAAAAGAGTCACTACT 642  
QY 421 GGAGAACGGCCCTCCAGTGCATTCAGTGGGGGCTTCATTCACCCAGAGAGGCAACCTG 480  
DB 643 GGTGAACGGCCCTTCAGTGCATTCAGTGGGGGCTTCATTCACCCAGAGAGGCAACCTC 702  
QY 481 CTCGGGACATCAAGTGCATTCCTGGGAGAGAGCCCTTCAATGCCACCTCTGCAACTAC 540

DB 703 CTGCGGCACATCAAGCTGCACCTGGGTGAGAAGCCCTTCAATGCGCATCTTTGGAACAT 762  
QY 541 GCCTGCGCGGAGGAGGACGCCCTCACTGCCACCTGAGGACGCACTCCGTTTGGTAAACCT 600  
DB 763 GCCTGCGCGGAGGAGGACGCCCTCACTGCCACCTGAGGACGCACTCCGTTTGGTAAACCT 822  
QY 601 CACAAATGTGGATATTGTGCGGAGAGCTATAAACAGCGAACGCTCTTTAGAGAAACATAAA 660  
DB 823 CACAAATGTGGATATTGTGCGGAGAGCTATAAACAGCGAACGCTCTTTAGAGAGGACATAA 882  
QY 661 GAGCGCTGCCACAACTACTTGGAAAGCATGGGCTTCCGGGACACACTGTACCCAGTCATT 720  
DB 883 GAGCGATGCCACAACTACTTGGAAAGCATGGGCTTCCGGGACACACTGTACCCAGTCATT 939  
QY 721 AAAGAAGAACTAAGCAGACAGTGAATGGCAGAGAGCTGTGCAAGATAGAGTACAGAGAGA 780  
DB 940 AAGGAAGAACTAAGCAGACAGTGAATGGCAGAGAGCTGTGCAAGATAGAGTACAGAGAGG 999  
QY 781 TCTCTCTGCTGGACAGACTAGCAAGTAATGTGCGCAAAAGTGAAGAGCTCTATGCGCTCAG 840  
DB 1000 TCCCTTGTCTGGACAGGCTGCAAGCAATGTGCGCAAAAGTGAAGAGCTCTATGCGCTCAG 1059  
QY 841 AAATTCTTGGGACAGAGGCGCTGCGACACGCCCTACGACAGTGCACAGTGCACAGTACGAGA 900  
DB 1060 AAATTCTTGGGACAGAGTGCCTGTGAGAGTGCCTGTGAGAGTGCCTGTGAGAGTGCAGAG 1119  
QY 901 GAGAAACGAAATGATGAAGTCCACAGTGCATGATGACCAAGCCATCAACAGCGCATCACTAC 960  
DB 1120 GAG--GATATGATGACATCCACAGTGCATGATGACAGGCCATCAACATGCGCATCACTAC 1176  
QY 961 CTGGGGCGGAGTCCCTGCGCGCGCTGCGAGACGCCGCCCGGGCGGTTCGAGAGTGGTC 1020  
DB 1177 CTGGGGCGGAGTCCCTGCGCGCGCTGCGAGACGCCGCCCGGGCGGTTCGAGAGTGGTC 1236  
QY 1021 CCGGTGATCAGCCGATGTACACAGTGCACAGG---CGCTCGGAGGACACCCCGCGCTCC 1077  
DB 1237 CCAGTATCAGTCCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1296  
QY 1078 AACCACTCGGCGGAGGAGGAGGCGCGTGGAGTACCTGCTGCTGCTGCTGCTGCTGCTGCTG 1137  
DB 1297 AACCACTCGGCGGAGGAGGAGGCGCGTGGAGTACCTGCTGCTGCTGCTGCTGCTGCTGCTG 1353  
QY 1138 GTGCGCTCGGAGGCGGAGGCGTCCCGAGCAACAGCTGCCAAGACTCCACGAGACACCGAG 1197  
DB 1354 GTGCTATCGGAGGCGGAGGCGTCCCGAGCAACAGCTGCCAAGACTCCACAGATACAGAG 1413  
QY 1198 AGCAACACAGGAGGAGGAGGCGCGTGGAGTATCTATCTACCTAACCAACCATCAACCCGAT 1257  
DB 1414 AGCAACACAGGAGGAGGAGGCGCGTGGAGTATCTATCTACCTAACCAACCATCAACCCGAT 1473  
QY 1258 GGGC---NACGGGTGCTCCTCAAGGAGGAGGAGGCGCGTACGACCTGCTGCGCGCGGCC 1314  
DB 1474 GCACGCAATGGGCTGCGCTCAAGGAGGAGGAGGCGCGCTACGAGGTGCTGAGGCGGCC 1533  
QY 1315 TCCGAGAACTCGCAGGAGGCGCTCGCGTGGTGCAGACACAGCGGGGAGCAGATGAAGTG 1374  
DB 1534 TCAGAGAACTCGCAGGAGGCGCTCGCGTGGTGCAGACAGTGCAGAGTGCAGAGTGCAGAGT 1593  
QY 1375 TACAAGTGGGAACATGCGGGGTGCTCTTCTGATGATGATGATGATGATGATGATGATGATGAT 1434  
DB 1594 TACAAGTGGGAACATGCGGGGTGCTCTTCTGATGATGATGATGATGATGATGATGATGATGAT 1653  
QY 1435 -----GGCTGCCAGGCTTCCGTTGATGATGATGATGATGATGATGATGATGATGATGAT 1485  
DB 1654 GCGTGCATGGGCTGCGGCTTCCGATGATGATGATGATGATGATGATGATGATGATGATGAT 1713  
QY 1486 AGCGAGGAGCGGTACGAGTTCCTGCGCACATTAACGCGAGGAGGAGGAGGAGGAGGAGGAGG 1545  
DB 1714 AGCGAGGAGCGGTACGAGTTCCTGCGCACATTAACGCGAGGAGGAGGAGGAGGAGGAGGAG 1773  
QY 1546 AGCTAA 1551  
DB 1774 AGCTAA 1779



RESULT 8  
 US-08-283-300A-4  
 ; Sequence 4, Application US/08283300A  
 ; Patent No. 6172278  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Georgopoulos, Katia A.  
 ; TITLE OF INVENTION: IKAROS TRANSGENIC CELLS AND ANIMALS  
 ; NUMBER OF SEQUENCES: 26  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: LAHIVE & COCKFIELD  
 ; STREET: 60 STATE STREET, Suite 510  
 ; CITY: BOSTON  
 ; STATE: MASSACHUSETTS  
 ; COUNTRY: USA  
 ; ZIP: 02109  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Asclii (text)  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/283.300A  
 ; FILING DATE:  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 08/238,212  
 ; FILING DATE: 02-MAY-94  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 08/121,438  
 ; FILING DATE: 14-SEP-1993  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 07/946,233  
 ; FILING DATE: 14-SEP-1992  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Myers, Paul L.  
 ; REGISTRATION NUMBER: 35,695  
 ; REFERENCE/DOCKET NUMBER: MGP-027  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (617)227-7400  
 ; TELEFAX: (617)227-5941  
 ; INFORMATION FOR SEQ ID NO: 4:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 2049 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: double  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: cDNA  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: 223..1776  
 US-08-283-300A-4

Query Match 75.7%; Score 1174.8; DB 4; Length 2049;  
 Best Local Similarity 87.2%; Pred. No. 9.5e-263;  
 Matches 1365; Conservative 0; Mismatches 177; Indels 24; Gaps 6;

QY	241	GATTTACGAATGCTTGATGCCTCGGGAGAGAAAAATGAATGGCTCCACAGGAGCAAGGC	300
DB	463	GATTTACGAATGCTTGATGCCTCGGGAGAGAAAAATGAATGGCTCCACAGGAGCAAGGC	522
QY	301	AGCTCGGCTTTTTCGGGAGTTGGAGGCATTTCGACTTCTTAACGGAATAAAGTGTGAT	360
DB	523	AGCTCGGCTTTTTCAGGAGTTGGAGGCATTTCGACTTCTTAACGGAATAAAGTGTGAT	582
QY	361	ATCTGTGGATCATTTTGCATCGGGCCCAATGTCTCATGTGTTTCAAAAAGAACCACT	420
DB	583	ATCTGTGGATCATTTTGCATCGGGCCCAATGTCTCATGTGTTTCAAAAAGAACCACT	642
QY	421	GGAGAACGGCCCTTCCAGTGAATCAGTGGGGGCGCTTATTCACCCAGAGGGCAACCTG	480
DB	643	GGTGAACGGCCCTTCCAGTGAATCAGTGGGGGCGCTTATTCACCCAGAGGGCAACCTC	702
QY	481	CTCCGGCACATCAAGCTGCAATTCGGGGAGAGCCCTTCAAAATGCCACCTCTGCAACTAC	540
DB	703	CTCCGGCACATCAAGCTGCAATTCGGGGAGAGCCCTTCAAAATGCCACCTCTGCAACTAT	762
QY	541	GCCTGCGCGCGGAGGAGGCGCTCAGTGGCCACCTGAGGACGCACTCCGTGTGTAACCT	600
DB	763	GCCTGCGCGCGGAGGAGGCGCTCAGTGGCCACCTGAGGACGCACTCCGTGTGTAACCT	822
QY	601	CACAAATGTGGATATTGTGCGCGAAGCTATAAAGCAGGAAAGCTTTTAGAGGACATATA	660
DB	823	CACAAATGTGGATATTGTGCGCGAAGCTATAAAGCAGGAAAGCTTTTAGAGGACATATA	882
QY	661	GAGCGTGCACAACTACTTTGGAAGCATGGGCTTCCGGGCGACACTGTACCCAGTCAAT	720
DB	883	GAGCGTGCACAACTACTTTGGAAGCATGGGCTTCCGGGCGACACTGTACCCAGTCAAT	939
QY	721	AAAGAAGAACTAAGCACACTGAAATGGGAGAGAGCTGTGCAAGATAGGATCAGAGAGA	780
DB	940	AAAGAAGAACTAAGCACACTGAAATGGGAGAGAGCTGTGCAAGATAGGATCAGAGAGA	999
QY	781	TCTCTGCTGCTGGACAGACTAGCAAGTAATGTGCCAAAGCTAAGAGCTCTATGCCCTCAG	840
DB	1000	TCTCTGCTGCTGGACAGACTAGCAAGTAATGTGCCAAAGCTAAGAGCTCTATGCCCTCAG	1059
QY	841	AAATTTCTTGGGAGAGGCGCTTCCGACACGCCCTTACGACAGTCCACGTCAGAGAG	900
DB	1060	AAATTTCTTGGGAGAGGCGCTTCCGACAGTCCCTTATGACAGTCCCAACTATGAGAAG	1119
QY	901	GAGAAGAAATGATGAAGTCCACAGTGGAGCAAGCCATCAACAGCCCATCAACTAC	960
DB	1120	GAG---GATATGATGACATCCACAGTGGAGCCAGGCGCATCAACAAATGCCATCAACTAC	1176
QY	961	CTGGGGCGGAGTCCCTGCGCGCGCTGGTGCAGACGCCCGCGGGCTTCCGAGGTGGTC	1020
DB	1177	CTGGGGCGGAGTCCCTGCGCGCGCTGGTGCAGACACCCCGGGTAGCTCCGAGGTGGTG	1236
QY	1021	CGGTCATCAGCCCGATGTACAGTGTGCACAGG---CGTCCGAGGGACACCCCGCGCTCC	1077
DB	1237	CGGTCATCAGCTTCCATGTACAGTGTGCACAGGCGCGCTTCCGAGGTGGTC	1296
QY	1078	AACCACTCGGCGCGGAGGAGCGCGCTGGAGTACCTGCTGCTCTCCAAAGGCCAAGTTG	1137
DB	1297	AACCACTCGGCGCGGAGGAGCGCGCTGGAGTACCTGCTGCTCTCCAAAGGCCAAGTTG	1353
QY	1138	GTGCGCTCGGAGCGGAGGCGTCCCGGAGCAACAGCTGCCAAGACTCCACGACACCGAG	1197
DB	1354	GTGTCATCGGAGCGGAGGCGCTCCCGGAGCAACAGCTGCCAAGACTCCACGACATACAG	1413
QY	1198	AGCAACAGGAGGAGGAGCGCGCTTATCTACCTGACCAACCAATCCCGCGAGC	1257
DB	1414	AGCAACGCGGAGGAGGAGCGCGCTTATCTACCTGACCAACCAATCCCGCGAGC	1473
QY	1258	GGCC---AACCGGTGCTGCTCAAGGAGGAGGAGCGCGCTTACGACCTGCTCGCGCGCGC	1314
DB	1474	GCACGCAATGGCTGCTCAAGGAGGAGGAGCGCGCTTACGACCTGCTCGCGCGCGC	1533





QY 721 AAAGAAGAACTAAGCAGAGTGAATGGCAGAGAGACCTGTGCAAGATAGGATCAGAGAGA 780  
DB 940 AAAGAAGAACTAAGCAGAGTGAATGGCAGAGAGACCTGTGCAAGATAGGATCAGAGAGA 999  
QY 781 TCTCTGCTGTCGACAGATAGCAGTAAATGTGCGCAACGTAAGAGCTCTATGCTCTAG 840  
DB 1000 TCCCTTGTCTGTCGACAGTGGCAGCAATGTGCGCAACGTAAGAGCTCTATGCTCTAG 1059  
QY 841 AAATTTCTTTGGGACAGGCTGTCGACAGCCTTACGACAGTGGCAGAGTGGCAGAGAG 900  
DB 1060 AAATTTCTTTGGGACAGGCTGTCGACAGCCTTACGACAGTGGCAGAGTGGCAGAGAG 1119  
QY 901 GAGAAGCAATGATGAATGCCACGTGATGACCAAGCCATCAACAAAGCCATCAACTAC 960  
DB 1120 GAG---GATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1176  
QY 961 CTGGGGGCGAGTCCCTGCGCGCGTGTGTCAGACGCCCCCGGGGGTTCAGAGTGGTC 1020  
DB 1177 CTGGGGGCGTGAATCCCTGCGCGCGTGTGTCAGACGCCCCCGGGGGTTCAGAGTGGTC 1236  
QY 1021 CCGGTATCAGCCCGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1077  
DB 1237 CAGTATCAGTCCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1296  
QY 1078 AACCACTCGCGCCAGACAGCGCGCTGAGTACCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1137  
DB 1297 AACCATTCAGCAGAG---CGCGGTGATGATGATGATGATGATGATGATGATGATGATGAT 1353  
QY 1138 GTGCGCTCGAGCGCGAGGCGTCCCGAGCAGCAGTGCAGAGCTCCACGAGCAGCAGAG 1197  
DB 1354 GTGTCATCGGAGGAGAGGCGCTCCCGAGCAGCAGTGCAGAGCTCCACAGATACAGAG 1413  
QY 1198 AGCAACAGCAGAGCAGCGCGCTGCTATCTACCTGACCAACACATCGCCGCGAGCG 1257  
DB 1414 AGCAACAGCAGAGCAGCGCGCTGCTATCTACCTGACCAACACATCGCCGCGAGCGAT 1473  
QY 1258 GCGC---AACGCGTGTGCTCAGAGAGCAGCAGCGCGCTGAGCAGCTGCTGCGCGCGCG 1314  
DB 1474 GCAGCAATGGCTGCTCCTCAGAGAGGAGCAGCGCGCTGAGCAGCTGCTGAGGCGCGCG 1533  
QY 1315 TCGAGAGTTCGAGAGCGGCTCCCGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 1374  
DB 1534 TCAGAGAACTCGCAGAGTGCCTTCCTGAGGAGGAGCAGCGCGCTGAGCAGCTGAGGAGTG 1593  
QY 1375 TACAAGTGCAGAACTGCGCGGTGCTTCTTCTGATCAGTGCATGATACACCATCCACATG 1434  
DB 1594 TACAAGTGCAGAACTGCGCGGTGCTTCTTCTGATCAGTGCATGATACACCATCCACATG 1653  
QY 1435 -----GGCTGCCACGCGCTTCCTGATGATGATGATGATGATGATGATGATGATGATGAT 1485  
DB 1654 GGCTGCCATGGCTGCCATGGCTTCGGGATTCCTTTGAGTGAACATGTTGTTATCATC 1713  
QY 1486 AGCAGAGCGGTACAGATTCGTCGTCGATACATACCGGAGGAGCAGCGCTTCACATG 1545  
DB 1714 AGCAGAGAGGTACAGATTCGTCGTCGATACATACCGGAGGAGCAGCGCTTCACATG 1773  
QY 1546 AGCTAA 1551  
DB 1774 AGCTAA 1779

RESULT 11  
US-08-465-590-8  
: Sequence 8, Application US/08465590  
: Patent No. 5824770  
: GENERAL INFORMATION:  
: APPLICANT: Georgopoulos, Katia A.  
: TITLE OF INVENTION: IKAROS: A T CELL PATHWAY REGULATORY GENE  
: NUMBER OF SEQUENCES: 164  
: CORRESPONDENCE ADDRESS:  
: ADDRESSEE: LAHIVE & COCKFIELD  
: STREET: 60 STATE STREET, Suite 510  
: CITY: BOSTON

STATE: MASSACHUSETTS  
COUNTRY: USA  
ZIP: 02109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: ASCII (text)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/465,590  
FILING DATE: 05-JUN-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/238,212  
FILING DATE: 02-MAY-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/121,438  
FILING DATE: 14-SEP-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/946,233  
FILING DATE: 14-SEP-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Myers, Paul L.  
REGISTRATION NUMBER: 35,695  
REFERENCE/DOCKET NUMBER: MPG-006C2DV  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617)227-7400  
TELEFAX: (617)227-5941  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1004 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..1002  
US-08-465-590-8

Query Match 56.0%; Score 868; DB 1; Length 1004;  
Best Local Similarity 88.8%; Pred. No. 6,3e-192;  
Matches 1004; Conservative 0; Mismatches 0; Indels 126; Gaps 1;  
QY 421 GGAGAAGCGCCCTTCCAGTGCATTCAGTGGGGGCGCTCATTCACCCAGAGGGCAACCTG 480  
DB 1 GGAGAAGCGCCCTTCCAGTGCATTCAGTGGGGGCGCTCATTCACCCAGAGGGCAACCTG 60  
QY 481 CTCGGGCACATCAAGCTGCATTCGGGGGAGAGCCCTTCAAATGCCACCTCTGCAACTAC 540  
DB 61 CTCGGGCACATCAAGCTGCATTCGGGGGAGAGCCCTTCAAATGCCACCTCTGCAACTAC 120  
QY 541 GCCTGCCCGCGGAGGAGCGCCCTCACCTGGCCACCTGAGGAGCGCACTCCGTTGGTAAACCT 600  
DB 121 GCCTGCCCGCGGAGGAGCGCCCTCACCTGGCCACCTGAGGAGCGCACTCC----- 168  
QY 601 CACAAATGTGGATATTGTGGCCGAAGCTATAACAGCGAAGCTCTTTAGAGGAACATAA 660  
DB 169 ----- 168  
QY 661 GAGCGCTGCCACAACACTACTTGGAAAGCATGGGCTTCGGGSCACACTGTACCCAGTCAAT 720  
DB 169 -----GTCAAT 174  
QY 721 AAAGAAGAACTAAGCAGAGTGAATGGCAGAGAGACCTGTGCAAGATAGGATCAGAGAGA 780  
DB 175 AAAGAAGAACTAAGCAGAGTGAATGGCAGAGAGACCTGTGCAAGATAGGATCAGAGAGA 234  
QY 781 TCTCTGCTGTCGACAGATAGCAGTAAATGTGCGCAACGTAAGAGCTCTATGCTCTAG 840  
DB 235 TCTCTGCTGTCGACAGATAGCAGTAAATGTGCGCAACGTAAGAGCTCTATGCTCTAG 294  
QY 841 AAATTTCTTTGGGACAGGCGCTGTCGACAGCCTTACGACAGTGGCAGAGTGGCAGAGAG 900

Db 295 AAATTTCTGGGACAGGCGCTGTCGACACGCCCTACACAGTGCACGTACGAGAG 354  
QY 901 GAGAAGAAATGATGAAGTCCCACTGATGACCAAGCCATCAACAGCCATCAACTAC 960  
Db 355 GAGAAGAAATGATGAAGTCCCACTGATGACCAAGCCATCAACAGCCATCAACTAC 414  
QY 961 CTGGGGCCGAGTCCCTGCGCCCGCTGGTGGTGCAGACGCCGCCCGGGTCCGAGGTGTC 1020  
Db 415 CTGGGGCCGAGTCCCTGCGCCCGCTGGTGGTGCAGACGCCGCCCGGGTCCGAGGTGTC 474  
QY 1021 CCGGTATACAGCCCGATGATACAGCTGCACAGCGCTCGGAGGGCACCCCGCTCAAC 1080  
Db 475 CCGGTATACAGCCCGATGATACAGCTGCACAGCGCTCGGAGGGCACCCCGCTCAAC 534  
QY 1081 CACTCGCCCGAGGACAGCGCGCTGGAGTACCTGCTGCTCTCCCAAGGCAAGTTGGTG 1140  
Db 535 CACTCGCCCGAGGACAGCGCGCTGGAGTACCTGCTGCTCTCCCAAGGCAAGTTGGTG 594  
QY 1141 CCGTGGAGCGGAGCGCTCCCGAGCAACAGCTGCCAGACTCCAGGACCGAGAGC 1200  
Db 595 CCGTGGAGCGGAGCGCTCCCGAGCAACAGCTGCCAGACTCCAGGACCGAGAGC 654  
QY 1201 AACACGAGGAGGAGCGCGCTTATCTACTGACCAACACATCGCCGACGCGG 1260  
Db 655 AACACGAGGAGGAGCGCGCTTATCTACTGACCAACACATCGCCGACGCGG 714  
QY 1261 CAACGGTGTGCTCAAGGAGGAGCGCGCTACGACCTGCTGCGCGCGCTCCGAG 1320  
Db 715 CAACGGTGTGCTCAAGGAGGAGCGCGCTACGACCTGCTGCGCGCGCTCCGAG 774  
QY 1321 AACTCGGAGGAGCGCTCCCGCTGGTGCAGCAGGCGGAGGAGATGAAGTGTACAAG 1380  
Db 775 AACTCGGAGGAGCGCTCCCGCTGGTGCAGCAGGCGGAGGAGATGAAGTGTACAAG 834  
QY 1381 TCGGAACACTGCGGGTGTCTCTCTGGATCAGTGTACACCATCCACATGGGCTGC 1440  
Db 835 TCGGAACACTGCGGGTGTCTCTCTGGATCAGTGTACACCATCCACATGGGCTGC 894  
QY 1441 CAGGGTTCGGTGTCTTTGAGTGCACATGTGGGGTACACAGCGAGGACCGGTAC 1500  
Db 895 CAGGGTTCGGTGTCTTTGAGTGCACATGTGGGGTACACAGCGAGGACCGGTAC 954  
QY 1501 GAGTTCCTGTCGCACATAACGCGGAGGAGCGCTTCCACATGAGCTA 1550  
Db 955 GAGTTCCTGTCGCACATAACGCGGAGGAGCGCTTCCACATGAGCTA 1004

## RESULT 12

US-08-283-300A-7  
; Sequence 7, Application US/08283300A  
; Patent No. 6172278  
; GENERAL INFORMATION:  
; APPLICANT: Georgopoulos, Katia A.  
; TITLE OF INVENTION: IKAROS TRANSGENIC CELLS AND ANIMALS  
; NUMBER OF SEQUENCES: 26  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: LAHIVE & COCKFIELD  
; STREET: 60 STATE STREET, Suite 510  
; CITY: BOSTON  
; STATE: MASSACHUSETTS  
; COUNTRY: USA  
; ZIP: 02109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Ascii (text)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/283.300A  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/238,212

; FILING DATE: 02-MAY-94  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/121,438  
; FILING DATE: 14-SEP-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/946,233  
; FILING DATE: 14-SEP-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Myers, Paul L.  
; REGISTRATION NUMBER: 35,695  
; REFERENCE/DOCKET NUMBER: MGP-027  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617)227-7400  
; TELEFAX: (617)227-5941  
; INFORMATION FOR SEQ ID NO: 7:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1004 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 1..1004  
; US-08-283-300A-7  
  
Query Match 56.0%; Score 868; DB 4; Length 1004;  
Best Local Similarity 88.8%; Pred. No. 6.3e-192;  
Matches 1004; Conservative 0; Mismatches 0; Indels 126; Gaps 1;  
  
QY 421 GGAGAACGGCCCTCCAGTGCAATCAGTGGGGGCGCTCATTCACCCAGAGGCAACCTG 480  
Db 1 GGAGAACGGCCCTCCAGTGCAATCAGTGGGGGCGCTCATTCACCCAGAGGCAACCTG 60  
QY 481 CTCGGCACATCAAGCTGCAATCCGGGGAGAGCCCTTCAATGCCACCTCTCCACTAC 540  
Db 61 CTCGGCACATCAAGCTGCAATCCGGGGAGAGCCCTTCAATGCCACCTCTCCACTAC 120  
QY 541 GCCTGCGCGGGAGGAGCGCCCTCACTGGCCACCTGAGGACGACCTCCCTTGGTAAACCT 600  
Db 121 GCCTGCGCGGGAGGAGCGCCCTCACTGGCCACCTGAGGACGACCTCC----- 168  
QY 601 CACAATATGGATATTTGTGGCCGAGCTATAACAGGGAACGCTTTAGAGGAACATAA 660  
Db 169 ----- 168  
QY 661 GAGCGCTGCCACAACCTACTTTGAAAGCATGGGCGCTTCCGGGCACACTGTACCCAGTCA 720  
Db 169 -----GTCA 174  
QY 721 AAAGAAGAACTAAGCACAGTGAATGGCAGAGAGCTGTGCAAGATAGGATCAGAGAGA 780  
Db 175 AAAGAAGAACTAAGCACAGTGAATGGCAGAGAGCTGTGCAAGATAGGATCAGAGAGA 234  
QY 781 TCTCTGCTGCTGGACAGACTAGCAAGTAATGTGCCAAAGCTAAGAGCTCTATGCCTCAG 840  
Db 235 TCTCTGCTGCTGGACAGACTAGCAAGTAATGTGCCAAAGCTAAGAGCTCTATGCCTCAG 294  
QY 841 AAATTTCTTTGGGACAAAGGCGCTGTCGACACGCGCTTACGACAGTGCAGGTACGAGAAG 900  
Db 295 AAATTTCTTTGGGACAAAGGCGCTGTCGACACGCGCTTACGACAGTGCAGGTACGAGAAG 354  
QY 901 GAGAAGAAATGATGAAGTCCCACTGATGGACCAAGCCATCAACAGCCATCAACTAC 960  
Db 355 GAGAAGAAATGATGAAGTCCCACTGATGGACCAAGCCATCAACAGCCATCAACTAC 414  
QY 961 CTGGGGCCGAGTCCCTGCGCCCGCTGGTGGTGCAGACGCCGCCCGGGTTCGAGGTGTC 1020  
Db 415 CTGGGGCCGAGTCCCTGCGCCCGCTGGTGGTGCAGACGCCGCCCGGGTTCGAGGTGTC 474  
QY 1021 CCGGTATACAGCCCGATGATACAGCTGCACAGCGCTCGGAGGGCACCCCGCTCAAC 1080

Db 475 CCGGTATCATAGCCCGATGATACAGCTGCACAGGCGCTCGGAGGCGACCCCGCTCCCAAC 534  
Qy 1081 CACTCGGCCCCAGGACAGCGCGCTGAGTACCTGCTGCTGCTCTCAAGGCCAAGTTGGTG 1140  
Db 535 CACTCGGCCCCAGGACAGCGCGCTGAGTACCTGCTGCTGCTCTCAAGGCCAAGTTGGTG 594  
Qy 1141 CCTCGGAGCGGAGCGCTCCCGGAGCAACAGCTGCCAAGACTCCACGACACACCGAGAGC 1200  
Db 595 CCTCGGAGCGGAGCGCTCCCGGAGCAACAGCTGCCAAGACTCCACGACACACCGAGAGC 654  
Qy 1201 AACACGAGGAGCAGCGAGCGGTCTTATCTACCTGACCAACACCATCCGCGACGCGG 1260  
Db 655 AACACGAGGAGCAGCGAGCGGTCTTATCTACCTGACCAACACCATCCGCGACGCGG 714  
Qy 1261 CAAACGCGTGTGCTCAAGGAGGAGCAGCGCGCTAGGACCTGCTCGCGCGCGCTCCGAG 1320  
Db 715 CAAACGCGTGTGCTCAAGGAGGAGCAGCGCGCTAGGACCTGCTCGCGCGCGCTCCGAG 774  
Qy 1321 AACTCGCAGGAGCGCTCCGCGTGTGTCAGCACACGCGGAGCAGATGAAGGTGTACAAG 1380  
Db 775 AACTCGCAGGAGCGCTCCGCGTGTGTCAGCACACGCGGAGCAGATGAAGGTGTACAAG 834  
Qy 1381 TCGCAACACTGCGCGGTGCTCTTCTGATCATCATGTCATGTACACCATCCACATGGGCTGC 1440  
Db 835 TCGCAACACTGCGCGGTGCTCTTCTGATCATCATGTCATGTACACCATCCACATGGGCTGC 894  
Qy 1441 CAGCGCTTCCGTGATCCTTTGAGTGCACATGTGCGGCTACCAAGCAGGACCGGTAC 1500  
Db 895 CAGCGCTTCCGTGATCCTTTGAGTGCACATGTGCGGCTACCAAGCAGGACCGGTAC 954  
Qy 1501 GAGTCTCGTCCACATACCGCGAGGAGGAGCACCCTTCCACATGAGCTA 1550  
Db 955 GAGTCTCGTCCACATACCGCGAGGAGGAGCACCCTTCCACATGAGCTA 1604

RESULT 13

US-08-711-417C-8  
; Sequence 8, Application US/08711417C  
; Patent No. 6228611  
; GENERAL INFORMATION:  
; APPLICANT: Georgopoulos, Katia A.  
; TITLE OF INVENTION: IKAROS: A T CELL PATHWAY REGULATORY GENE  
; NUMBER OF SEQUENCES: 202  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: Fish & Richardson P.C.  
; STREET: 225 Franklin Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02110-2804  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: Windows 95  
; SOFTWARE: FastSeq for Windows Version 2.0b  
; CURRENT APPLICATION DATA:  
; FILING DATE: 05-Sep-1996  
; FILING DATE: 05-Sep-1996  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/238,212  
; FILING DATE: 02-MAY-1994  
; APPLICATION NUMBER: 08/121,438  
; FILING DATE: 14-SEP-1993  
; APPLICATION NUMBER: 07/946,233  
; FILING DATE: 14-SEP-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Myers, Louis P.  
; REGISTRATION NUMBER: 35,965  
; REFERENCE/DOCKET NUMBER: 10287/007001  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617/542-5070  
; TELEFAX: 617/542-8906  
; TELEX: 200154

; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1004 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; FEATURE:  
; NAME/KEY: Coding Sequence  
; LOCATION: 1...1002  
; SEQUENCE DESCRIPTION: SEQ ID NO: 8:  
US-08-711-417C-8  
  
Query Match 56.0%; Score 868; DB 4: Length 1004;  
Best Local Similarity 88.8%; Pred. No. 6.3e-192;  
Matches 1004; Conservative 0; Mismatches 0; Indels 126; Gaps 1;  
  
Qy 421 GGAGAACGGCCCTTCCAGTGCATTCAGTGGGGGCTCATTCACCCAGAGGGCAACCTG 480  
Db 1 GGAGAACGGCCCTTCCAGTGCATTCAGTGGGGGCTCATTCACCCAGAGGGCAACCTG 60  
Qy 481 CTCGGGCACATCAAGCTGATTCGGGGAGAGCCCTTCAATGCCACCTCTGCAACTAC 540  
Db 61 CTCGGGCACATCAAGCTGATTCGGGGAGAGCCCTTCAATGCCACCTCTGCAACTAC 120  
Qy 541 GCCTGCCCGCGGAGGAGCGCCCTCACTGGCCACCTGAGGACGCACTCCGTTGGTAAACCT 600  
Db 121 GCCTGCCCGCGGAGGAGCGCCCTCACTGGCCACCTGAGGACGCACTCC----- 168  
Qy 601 CACAAATGTGATATTGTGGCCGAAGCTATAAACAAGCGAAGCTTTTAGAGGAAACATAA 660  
Db 169 ----- 168  
Qy 661 GAGCGCTGCCACCACTACTTGAAGAGCATGGGCCCTTCCGGGCGACACTGTACCCAGTCATT 720  
Db 169 -----GTCAAT 174  
Qy 721 AAAGAAGAAACTAAGCACAGTGAATGGCAGAAAGACCTGTGCAAGATAGGATCAGAGAGA 780  
Db 175 AAAGAAGAAACTAAGCACAGTGAATGGCAGAAAGACCTGTGCAAGATAGGATCAGAGAGA 234  
Qy 781 TCTCTGCTGTGGACAGACTAGCAAGTAAATGTGCGCAACAGTAAAGAGCTCTATGCTCTAG 840  
Db 235 TCTCTGCTGTGGACAGACTAGCAAGTAAATGTGCGCAACAGTAAAGAGCTCTATGCTCTAG 294  
Qy 841 AAATTTCTTGGGACAAAGGCGCTGTCGACACGCGCTACGACAGTGCACGCTACGAGAAG 900  
Db 295 AAATTTCTTGGGACAAAGGCGCTGTCGACACGCGCTACGACAGTGCACGCTACGAGAAG 354  
Qy 901 GAGAACGAAATGATGAAGTCCCACTGATGGACCAAGCCATCAACAAGCCCATCAACTAC 960  
Db 355 GAGAACGAAATGATGAAGTCCCACTGATGGACCAAGCCATCAACAAGCCCATCAACTAC 414  
Qy 961 CTGGGGGCGAGTCCCTGGGCGCGCTGGTGGAGAGCCCGCGGGGGTTCAGAGGTGTC 1020  
Db 415 CTGGGGGCGAGTCCCTGGGCGCGCTGGTGGAGAGCCCGCGGGGGTTCAGAGGTGTC 474  
Qy 1021 CCGGTTCATCAGCCCGATGTACAGCTGCACAGCGCTCGGAGGCGACCCCGCGCTCCAAAC 1080  
Db 475 CCGGTTCATCAGCCCGATGTACAGCTGCACAGCGCTCGGAGGCGACCCCGCGCTCCAAAC 534  
Qy 1081 CACTCGGCCCCAGGACAGCGCGCTGGAGTACCTGCTGCTCTCAAGGCCAAGTTGGTG 1140  
Db 535 CACTCGGCCCCAGGACAGCGCGCTGGAGTACCTGCTGCTCTCAAGGCCAAGTTGGTG 594  
Qy 1141 CCTCGGAGCGGAGCGCTCCCGGAGCAACAGCTGCCAAGACTCCACGACACACCGAGAGC 1200  
Db 595 CCTCGGAGCGGAGCGCTCCCGGAGCAACAGCTGCCAAGACTCCACGACACACCGAGAGC 654  
Qy 1201 AACACGAGGAGCAGCGAGCGGTCTTATCTACCTGACCAACACCATCCGCGACGCGG 1260  
Db 655 AACACGAGGAGCAGCGAGCGGTCTTATCTACCTGACCAACACCATCCGCGACGCGG 714

QY 1261 CAACGCGTGTCTCAAGGAGGACCGCGCTTACGACCTGTGCGCGCGCTCCGAG 1320  
 Db 715 CAACGCGTGTCTCAAGGAGGACCGCGCTTACGACCTGTGCGCGCGCTCCGAG 774  
 QY 1321 AACTCGGAGGACCGCTCCCGGTGTGTCAGCACCGGCGGAGGAGATGAAGGTGTACAAG 1380  
 Db 775 AACTCGGAGGACCGCTCCCGGTGTGTCAGCACCGGCGGAGGAGATGAAGGTGTACAAG 834  
 QY 1381 TGGGAACACTGCGGGTGTCTTCCCTGGATCAGTGTATACCATCCACATGGGGTGC 1440  
 Db 835 TGGGAACACTGCGGGTGTCTTCCCTGGATCAGTGTATACCATCCACATGGGGTGC 894  
 QY 1441 CACGGCTTCGCGTGTCTTTCGATGTCACATGTGGGGCTTACACAGCCAGGACCGGTAC 1500  
 Db 895 CACGGCTTCGCGTGTCTTTCGATGTCACATGTGGGGCTTACACAGCCAGGACCGGTAC 954  
 QY 1501 GAGTTCTGTCGACATATAGCGGAGGGAGCACCGGTTCACATGAGCTA 1550  
 Db 955 GAGTTCTGTCGACATATAGCGGAGGGAGCACCGGTTCACATGAGCTA 1004

## RESULT 14

PCT-US95-09345-7

; Sequence 7, Application PC/TUS9509345

; GENERAL INFORMATION:

; APPLICANT: Georgopoulos, Katia A.

; TITLE OF INVENTION: IKAROS TRANSGENIC CELLS AND ANIMALS

; NUMBER OF SEQUENCES: 26

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: LAHIVE &amp; COCKFIELD

; CITY: BOSTON

; STREET: 60 STATE STREET, Suite 510

; STATE: MASSACHUSETTS

; COUNTRY: USA

; ZIP: 02109

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: ASCII (text)

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: PCT/US95/09345

; FILING DATE:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/283,300

; FILING DATE: 29-JULY-94

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/238,212

; FILING DATE: 02-MAY-94

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/121,438

; FILING DATE: 14-SEP-1993

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/946,233

; FILING DATE: 14-SEP-1992

; ATTORNEY/AGENT INFORMATION:

; NAME: Myers, Paul L.

; REGISTRATION NUMBER: 35,695

; REFERENCE/DOCKET NUMBER: MGP-027PC

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (617)227-7400

; TELEFAX: (617)227-5941

; INFORMATION FOR SEQ ID NO: 7:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 1004 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: cDNA

; FEATURE:

; NAME/KEY: CDS

; LOCATION: 1..1004

PCT-US95-09345-7

Query Match 56.0%; Score 868; DB 5; Length 1004;

Best Local Similarity 88.8%; Pred. No. 6.3e-192;

Matches 1004; Conservative 0; Mismatches 0; Indels 126; Gaps 1;

QY 421 GGAGAACGGCCCTTCCAGTGCATTCAGTGGGGCCCTTACCCAGAGAGGGCAACCTG 480  
 Db 1 GGAGAACGGCCCTTCCAGTGCATTCAGTGGGGCCCTTACCCAGAGAGGGCAACCTG 60  
 QY 481 CTCGGGCACATCAAGCTGTCTCCGGGAGAGCCCTTCAATGCCCACCTCTGCAACTAC 540  
 Db 61 CTCGGGCACATCAAGCTGTCTCCGGGAGAGCCCTTCAATGCCCACCTCTGCAACTAC 120  
 QY 541 GCCTGCGCGCGGAGGAGCGCCCTCACTTGGCCACCTGAGGACGACCTCGTTGGTAAACCT 600  
 Db 121 GCCTGCGCGCGGAGGAGCGCCCTCACTTGGCCACCTGAGGACGACCTCC----- 168  
 QY 601 CACAATGTGGATATTGTGGCCGAAGCTATAACAGGGAACGCTCTTTAGAGGAACATAA 660  
 Db 169 ----- 168  
 QY 661 GAGCGCTGCCACAACCTACTTTGGAAGCATGGGCTTCCGGGCACACTGTACCCAGTCAAT 720  
 Db 169 -----GTCAATT 174  
 QY 721 AAAGAAAGAACTAAGCACAGTGAATGGCAGAGACCTGTCAAGATATAGATCAGAGAGA 780  
 Db 175 AAAGAAAGAACTAAGCACAGTGAATGGCAGAGACCTGTCAAGATATAGATCAGAGAGA 234  
 QY 781 TCTCTGTCTGTGACAGACAGTAGCAAGTAATGTGCCAAAGCTAAGAGCTCTATGCCTCAG 840  
 Db 235 TCTCTGTCTGTGACAGACAGTAGCAAGTAATGTGCCAAAGCTAAGAGCTCTATGCCTCAG 294  
 QY 841 AAATTTCTTGGGACAAGGCGCTTCCGACACGCTGTCCGACACGCTTACGACAGTGCCACGTACGAGAAG 900  
 Db 295 AAATTTCTTGGGACAAGGCGCTTCCGACACGCTGTCCGACACGCTTACGACAGTGCCACGTACGAGAAG 354  
 QY 901 GAGAACAAATGATGAAGTCCCACGTGTGACCAAGCCATCAACACGCCATCAACTAC 960  
 Db 355 GAGAACAAATGATGAAGTCCCACGTGTGACCAAGCCATCAACACGCCATCAACTAC 414  
 QY 961 CTGGGGGCGGAGTCCCTGCGCGCGCTGTGTGACAGACGCGCGCGGGCGGTTCGAGGTGGTC 1020  
 Db 415 CTGGGGGCGGAGTCCCTGCGCGCGCTGTGTGACAGACGCGCGCGGGCGGTTCGAGGTGGTC 474  
 QY 1021 CCGGTCTATCAGCCCGGATGTACGAGCTGCACAGCGCTCGGAGGCGCACCCCGCGCTCCAAC 1080  
 Db 475 CCGGTCTATCAGCCCGGATGTACGAGCTGCACAGCGCTCGGAGGCGCACCCCGCGCTCCAAC 534  
 QY 1081 CACTCGGCCAGGACAGCGCGCTGGAGTACCTGCTCTCTCCAAAGGCGCAAGTTGGTG 1140  
 Db 535 CACTCGGCCAGGACAGCGCGCTGGAGTACCTGCTCTCTCCAAAGGCGCAAGTTGGTG 594  
 QY 1141 CCCTCGGAGCGGAGCGGTCCCGGAGCAACAGCTGCCAAGATCCACGACACCGAGAGC 1200  
 Db 595 CCCTCGGAGCGGAGCGGTCCCGGAGCAACAGCTGCCAAGATCCACGACACCGAGAGC 654  
 QY 1201 AACACGAGGAGCAGCGAGCGGTCTTATCTACCTGACCAACACATCGCCGCGCGCGG 1260  
 Db 655 AACACGAGGAGCAGCGAGCGGTCTTATCTACCTGACCAACACATCGCCGCGCGCGG 714  
 QY 1261 CAACGCGTGTCTCAAGGAGGAGCACCGCGCTACGAGCTGTGCGCGCGCGCTCCGAG 1320  
 Db 715 CAACGCGTGTCTCAAGGAGGAGCACCGCGCTACGAGCTGTGCGCGCGCGCTCCGAG 774  
 QY 1321 AACTCGAGGACGCGCTCGCGTGTGTACAGCACCGGGGAGCAGATGAAGGTGTACAAG 1380  
 Db 775 AACTCGAGGACGCGCTCGCGTGTGTACAGCACCGGGGAGCAGATGAAGGTGTACAAG 834  
 QY 1381 TCGGAACACTGCGGGTGTCTTCTTGTGATCAGTGTATACCATCCACATGGGGTGC 1440

Db 835 TCGACACTCCCGGGTCTTCTTGATCAGCTCATGTACACCATCCACATCCGCTGC 894  
Qy 1441 CACGGCTTCCTGATCCTTTGAGTGCAACATGCGGGCTACACAGCCAGGACCGGTAC 1500  
Db 895 CACGGCTTCCTGATCCTTTTGTGAGTGCAACATGTCGGCTACACAGCCAGGACCGGTAC 954  
Qy 1501 GAGTTCCTGTCGACATAACCGGAGGAGCACCCTTCCACATGAGCTA 1550  
Db 955 GAGTTCCTGTCGACATAACCGGAGGAGCACCCTTCCACATGAGCTA 1004

## RESULT 15

US-08-465-590-2  
; Sequence 2, Application US/08465590  
; Patent No. 5824770  
; GENERAL INFORMATION:  
; APPLICANT: Georgopoulos, Katia A.  
; TITLE OF INVENTION: IKAROS: A T CELL PATHWAY REGULATORY GENE  
; NUMBER OF SEQUENCES: 164  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: LAHIVE & COCKFIELD  
; STREET: 60 STATE STREET, Suite 510  
; CITY: BOSTON  
; STATE: MASSACHUSETTS  
; COUNTRY: USA  
; ZIP: 02109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Ascii (text)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/465,590  
; FILING DATE: 05-JUN-1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/238,212  
; FILING DATE: 02-MAY-1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/121,438  
; FILING DATE: 14-SEP-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/946,233  
; FILING DATE: 14-SEP-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Myers, Paul L.  
; REGISTRATION NUMBER: 35,695  
; REFERENCE/DOCKET NUMBER: MPG-006C2DV  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617)227-7400  
; TELEFAX: (617)227-5941  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1788 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 223..1515  
US-08-465-590-2

Query Match 52.4%; Score 813.2; DB 1; Length 1788;  
Best Local Similarity 85.5%; Pred. No. 3.3e-179;  
Matches 983; Conservative 0; Mismatches 143; Indels 24; Gaps 6;

Qy 417 CACTGGAGAACGGCTTCAGTCAATCAGTGGGGGCTCATTCACCCAGAGGGCAA 476  
Db 378 CATGGTGAACGGCTTCAGTCAATCAGTGGGGGCTCATTCACCCAGAGGGCAA 437  
Qy 477 CCGTCCGGGACATCAGCTCATTCGGGAGAGCCCTTCAATGCCACCTCTGCAA 536

Db 438 CCTCCTCGGGCACATCAAGCTGCACTCGGGTGAGAGCCCTTCAATGCCATCTTTGCAA 497  
Qy 537 CTACGGCTTCGCCCGGAGGAGCGCCCTCACTGGCCACCTGAGGACGCACTCCGTTGGTAA 596  
Db 498 CTATGCTCCGCCCGGAGGAGCGCCCTCACCAGCCACCTGAGGACGCACTCCGTTGGTAA 557  
Qy 597 ACCTCACAATGTGGATATTTGGCCGGAAGCTATAAAGAGGCAAGCTCTTTAGAGGAACA 656  
Db 558 GCCTCACAATGTGGATATTTGGCCGGAAGCTATAAAGAGGCAAGCTCTTTAGAGGAACA 617  
Qy 657 TAAAGAGCGCTGCCACACTACTTTGGAAGCATGGGCTTCGGGCGACACTGTACCCAGT 716  
Db 618 TAAAGAGCGATGCCACACTACTTTGGAAGCATGGGCTTCGGGCG---GTGTCGCCAGT 674  
Qy 717 CATTAAGAGAAACTTAAGCACAGTGAATGCGAAGACCTGTGCAAGATAGGATCAGA 776  
Db 675 CATTAAGAGAAACTTAAGCACAGTGAATGCGAAGACCTGTGCAAGATAGGAGCAGA 734  
Qy 777 GAGATCTCTGCTGGGAGAGACTAGCAAGTAAATGTGCGCAAACTAGAGCTCTATGCC 836  
Db 735 GAGGTCCCTTGTCTGGACAGGCTGGCAAGCAATGTGCGCAAACTAGAGCTCTATGCC 794  
Qy 837 TCAGAAATTTCTTGGGACAAAGGCTGTCCGACAGCCCTACGACAGTGCACCATGACA 896  
Db 795 TCAGAAATTTCTTGGGAGCAAGTGTCTGACACATGCCCTATGACAGTGCACCATGACA 854  
Qy 897 GAAGGAGAACTGAATGATGAAGTCCACACTGATGACCAAGCCATCAACAACGCCATCAA 956  
Db 855 GAAGGAG---GATATGATGACATCCACCTGATGACCAAGCCATCAACAATGCCATCAA 911  
Qy 957 CTACCTGGGGCGGAGTCCCTGCGGCCGCTGGTGACAGAGCCCGGGGGGTTCGAGGT 1016  
Db 912 CTACCTGGGGCGGAGTCCCTGCGGCCATTTGGTGACAGACACCCCGGTAGCTCCGAGGT 971  
Qy 1017 GGTCCCGGTCAATCAGCCCGATGTACAGCTGCACAGCGG---CTCGGAGGGCACCCCGG 1073  
Db 972 GGTGCCAGTCAATCAGCTCCATGTACAGCTGCACAGCCCGCTCAGATGGCCCCCAGG 1031  
Qy 1074 CTCGAACACTCGGCCCGGAGGAGAGCGCCGTGAGTACCTGTGCTGCTCTCAAGGCCAA 1133  
Db 1032 GTCCAACCATTCAGCACAGGA---CGCCCGTGGATTAATCTGCTGCTGCTCAAGGCCAA 1088  
Qy 1134 GTTGTGCTCGGAGCGGAGGCGCTCCCGGAGCAACAGCTGCCAAGACTTCCACGGACAC 1193  
Db 1089 GTCTGTCTATCGGAGCGAGAGGCTCCCGGAGCAACAGCTGCCAAGACTTCCACAGTAC 1148  
Qy 1194 CGAGACACACAGGAGGAGCGAGCGCTCTTATCTACCTGACCAACCAATCGCCCG 1253  
Db 1149 AGAGAGCAACGGGAGGAGCAAGCGGCGCTTATCTACCTAACCAACCAATCAACCC 1208  
Qy 1254 ACGCGGC---AACGGGTGCTCAAGGAGGAGCAGCGGCTAGGACCTGCTGGCGC 1310  
Db 1209 GCATGCACGCAATGGGCTGCTCAAGGAGGAGCAGCGGCTACGAGGTGCTGAGGGC 1268  
Qy 1311 CGCTCCGAGAACTCGCAGGAGCGCTCCCGGTGCTGAGCAGCAGCGGGGAGCAGATGAA 1370  
Db 1269 GGCTCAGAGAACTCGCAGGATGCCCTTCCGTGCTGAGCAGAGTGGGAGCAGCTGAA 1328  
Qy 1371 GGTGTACAAGTGGCAACACTGCGGGGTGCTTCTCTGGATCAGCTCATGTACACCATCA 1430  
Db 1329 GGTGTACAAGTGGCAACACTGCGCGGTGCTTCTCTGGATCAGCTCATGTATACCATCA 1388  
Qy 1431 CATG-----GGCTGCCACGGCTTCGCTGATCCTTTTGGTGAACATGTGCGGCTA 1481  
Db 1389 CATGGGCTGCCATGGCTGGCATGGCTTCGGGATCCCTTTGAGTGAACATGTGTTGTTA 1448  
Qy 1482 CCACAGCAGGACCGGTACGAGTTCCTGCGACATAAAGCGAGGGGAGCAGCGCTTCCA 1541  
Db 1449 TCACAGCAGCAGGATGACAGTTCATCCCATATACACGCGGGGAGCATGCTTACCA 1508  
Qy 1542 CATGAGCTAA 1551  
Db 1509 CCGTGAAGCTAA 1518



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Job time: 6945 sec

